MATHEMATICS

BACHELOR OF ARTS (BA.MATH)

CORE Requirements	Credits
CORE 090 First Year Exp.	1
CORE 100 Lib Arts Sem.	3
CORE 110 Effect Writ.	3
CORE 115 or 116 Oral Comm.	3
CORE 131 or 133 Civilization	3
CORE 140 or 141-145 Forgn.	3
CORE 150-159 Soc. Sci.[3]	3
CORE 160-169 Literature	3
CORE 170-179 The Arts	3
CORE 180-189 Amer. Studies[1]	3
CORE 190-199 Global Studies[1]	3
CORE 250-259 Syst. Theology	3
CORE 260-269 Mor. Theology	3
CORE 280 Philos. I	3
CORE 281-289 Philos. II	3
Total Credits for CORE	43

Major Requirements	Credits
MATH 127[5]	3
MATH 129[5]	4
MATH 130	4
MATH 231[6]	4
MATH 235[6]	3
MATH 250	4
MATH 367	3
MATH 425	3
MATH 490	1
CS 112	3
CS 1xx	3
Science Group*	3
Science Group*	3

Major Requirements	Credits
MATH Track**	3
MATH Track**	3
MATH Track**	3
MATH Track**	3
MATH Track**	3
Total Credits for Major	56

Free Electives[2]	Credits
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Total Credits for Free Electives	21

Total Credits Required for Graduation = 120

***All students majoring in Mathematics must take one of the Science Groups below (lab portion not required):

Science Group 1*		Science Group 2*		Science Group 3*
CHEM 113	OR	PHYS 111	OR	PHYS 113 *(Calculus based)*
CHEM 114		PHYS 112		PHYS 114 *(Calculus based)*

****In addition to the above, each B. A. Mathematics Major must complete one of the following three tracks:

MATH Track 1 Graduate School		MATH Track 2 Actuary Science, Industry, & Government		MATH Track 3 Secondary Education
Students must take five (5) math courses numbered 300 or higher. Typical options are:		Students must take five (5) math courses numbered 300 or higher. The following (5) courses are recommended		See program planner specifically designed for Math / Secondary Education
MATH 301	MATH 365	MATH 301	MATH 363	
MATH 361	MATH 418	MATH 361	MATH 365	
MATH 362	MATH 420	MATH 362		
MATH 363	MATH 391/491			

[1] Students are required to take one of CORE 150, CORE 180, **OR** CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 150, then he/she must choose one from 181 – 188 to fulfill the 18x requirement AND one from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 180, then he/she must choose one from 151 – 158 to fulfill the 15x requirement AND one from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she must choose one from 151 – 158 to fulfill the 15x requirement AND one from 181 – 188 to fulfill the 18x requirement.

[2] Students may select "free electives" for personal enrichment **OR** for Minor and/or Second Major Requirements.
[3] CORE 153 is highly recommended for students on MATH Track 2. (See [1] above.)
[4] ECON 222 is recommended for students on MATH Track 2. MATH 362 substitutes for ECON 221 as course prerequisite.
[5] Courses intended to be taken concurrently. Do not delay taking MATH 127.
[6] Courses intended to be taken concurrently. Do not delay taking MATH 235.
[7] MATH 238 is recommended for students on MATH Tracks 1 and 2.
[8] Students contemplating MATH and CS double-majoring and with a high GPA may take CS 112 and CS 120 in their 1st year.
[9] CS 100 may be substituted for CS 111.

General Information:

A student must earn a minimum of 120 credit hours to be awarded the baccalaureate degree. The number of credit hours required for graduation may be higher in certain major programs **or** if the student elects to pursue a second major.
Beyond the requirements of the Core Curriculum and of a student's chosen major program, the balances of the credit hours required for graduation are "free electives."

See reverse side for a suggested sequence

MATHEMATICS

SUGGESTED SEQUENCE

- Use the information below as a guide when selecting courses.
- Refer to the reverse side when selecting major courses, major electives, core courses, and free electives when applicable.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed on the reverse side.
- CORE courses may be taken in any order approved by the academic advisor with the following conditions:
    - CORE 100 and CORE 110 should be taken in the first year.
    - CORE 115 (or 116) should be taken within the first two years.
    - For students selecting a Foreign Language (CORE 14x), every effort should be made to complete the course during the first semester at King's College.

	1st Year – Fall	cr.		**1st Year - Spring**	cr.
	MATH 127[5] Logic & Axiomatics	3		MATH 130 Analytic Geometry & Calculus II	4
	MATH 129[5] Analytic Geometry & Calculus I	4		CS 111[9] Programming for Sci. & Eng. or CORE	3
	CORE	3		CORE	3
	CORE	3		CORE	3
	CORE	3		CORE	3
	CORE 090 First Year Experience	1			
		17			**16**
	2nd Year – Fall			**2nd Year – Spring**	
	MATH 231[6] Analytic Geometry & Calculus III	4		MATH 250 Linear Algebra	4
	MATH 235[6] Discrete Mathematics	3		Free Elective [2, 4, 7] or CORE	3
	CORE	3		CORE	3
	CS 112[8] Intro. to Programming	3		CS 120[8] OO Software Development or CORE	3
	Science Group*	3		Science Group*	3
		16			**16**
	3rd Year – Fall			**3rd Year – Spring**	
	MATH 367 Real Analysis I	3		MATH 490 Junior Seminar	1
	MATH Track**	3		MATH Track**	3
	CORE	3		MATH Track**	3
	CORE	3		CORE	3
	Free Elective [2, 4, 7]	3		Free Elective [2, 4, 7]	3
		15			**13**
	4th Year – Fall			**4th Year – Spring**	
	MATH 425 Abstract Algebra	3		MATH Track**	3
	MATH Track**	3		CORE or Free Elective [2, 4, 7]	3
	CORE	3		Free Elective [2, 4, 7]	3
	Free Elective [2, 4, 7]	3		Free Elective [2, 4, 7]	3
	Free Elective [2, 4, 7]	3			
		15			**12**

Total Credits Required for Graduation = 120